SCHEDULE-B

Tender for the work of providing Laying and casing of 400mm dia DI sewer line at Kariyanapalya at chainage 5+570 coming under Lingarajapura service station of AEE E22 sub dvn..

Sl. No	Particulars	Unit	Qty
1	Earth work excavation for pipeline trenches by mechanical means above 600 mm (Depth upto 1.50m not exceeding 1.5m in width) trench width as per drawing and technical specification, including setting out, construction of shoring, strutting, cost of blastingmaterials,barricading, caution lights, bracing, using sight rails & boning rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work and all other appurtenances to complete in the following strata	Cum	**69.38**
2	Providing and laying Ductile Iron pipes of class conforming to IS 8329:2000 with latest amendments, conveying to work site, rolling and lowering into trenches, laying true to line, level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations, cutting of pipes wherever necessary, jointing with DI specials (excluding cost of specials) and rubber gaskets, cleaning the socket and spigot end with soap solution, applying soft soap to the socket and spigot ends before insertion of rubber gaskets, jacking and fixing in perfect conditions etc. The cost to include soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS with all lead and lifts and cost of all jointing materials. (The contractor will make his own arrangements for water for testing. Earth work excavation in trenches to be measured and paid for seperately) Note: In sewerage projects for internal cement mortal lining (CML) of DI pipes, if High Alumina Cement (HAC) as recommended in Annexure B clause 16.3 of IS8329:2000 is considered in place of Slag or Sulphate Resistance Cement (SRC), the cost of pipes may be increased by 5-6% from the prices listed. For DI K9 pipe	**Rmt**	**58.80**
3	**Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m Including cost of all labour complete as per specifications**	**Cu m**	**62.00**
4	Construction of RCC Machinehole chambers of 1:1.5:3 proportion or approved type Cast-insitu / Pre-cast RCC Machinehole chambers, constructed using form vibrators of standard type, with barricading, danger lighting and using of sight rails and boning rods wherever necessary, shoring and strutting wherever required using Ordinary Port Land Cement, using 1:1.5:3 proportion RCC with 20 mm and down graded jelly, well graded sand and steel of approved quality, 200 mm thick top concrete slab, having wall thickness and raft thickness as in approved drawings and with an offset in raft alround the chamber as in approved drawing, benching concrete with 1:6 slope towards the central drain finished smooth, including fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC Machinehole cover and frame (Heavy duty)		

	conforming to IS:12592 with latest amendments, on a bed of CC 1:2:4 supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia. Grade Fe-500 steel bar (as per IS 1786) staggered at 300 mm apart as detailed in Technical specifications, including stone grit beding wherever required, watering, curing, engraving Machinehole number with flow direction on the inner cylindrical surface etc., complete including cost of reinforcement steel and fabrication charges and also cost and conveyance of all materials, labour with all lead and lifts. The Pre-cast RCC Machinehole are for various diamters and depths as stated below and as per detailed drawings, specifications and direction of the Engineer. Constructing Pre-cast RCC Machinehole 1.5 m internal dia. , 4.0 M depth & SFRC cover & frame.		
4a	4.0 mt depth manhole NMH 1	No	1.00
4b	4.3 mt depth manhole NMH 2	No	1.00
5	**Removal of unserviceable soil with disposal upto a suitable distance as directed by the engineer incharge of work.**	cum	**7.39**
6	**Dewatering the sewage / storm water by using reqired 5 HP submersible pump for the diversion of storm / sewage during the execution of work. Considering for one Pump 5hp**	Hr	**5.00**
7	Providing and laying in Cement Concrete for all Basement & surface level works, return walls, retaining walls, sunken floors etc. The granite/trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates		
	Rate with formwork and concrete	cum	**39.15**
8	Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification.Foundations of Bridges.		
		kg	**6147**

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